IN THE CLAIMS:

Please consider all claims 1-44 cancelled as per previous response dated 22nd July 2009 without prejudice or disclaimer.

Please cancel claims 45-85 without prejudice or disclaimer.

Please add all new claims 86-111.

- 86. (New) An **impact driver** for driving an **elongate object** into a **body** in any plane from the horizontal to the vertical, said **impact driver** comprising
 - a) chassis,
 - b) a ram supported by said chassis in a manner allowing rectilinear movement of said ram relative to said chassis,
 - c) a linear induction motor including
 - (i) a stator mounted to said chassis, and
 - (ii) a linear induction motor reaction member composed of at least one plat of an electrically conductive material mounted to said ram,
 - (iii) the stator being positioned to operatively interact with linear induction motor reaction member to accelerate the reaction member substantially along a length of movement of the reaction member to move the reaction member
 - from a retracted position to an impact position, and
 - from the impact position to the retracted position,
 - d) whereby, when the said **reaction member** is accelerated to move from said **retracted position** to said **impact position**, the **ram** is accelerated at an increasing rate throughout its movement by the **reaction member** to substantially increase its kinetic energy for causing an impact force to be imparted on said **elongate object** in the elongate direction thereof.
- 87. (New) The **impact driver** as claimed in claim 86, wherein said **ram** includes an **impact head** for receiving said **impact force** from the **ram** and transmitting it to an **elongate object**.
- 88. (New) The **impact driver** as claimed in claim 87, wherein said **ram** includes an elongate ram support structure, said **ram support structure** having a first and second ends, and wherein said **impact head** is provided at a first end of said **ram support structure**.
- 89. (New) The **impact driver** as claimed in claim 88, wherein said **reaction member** is of an elongate configuration, and is secured to the **ram support structure** to extend in the elongate direction of said **ram support structure** between said first and second ends thereof.

- 90. (New) The **impact driver** as claimed in claim 87, wherein said **impact head** is of a robust and substantially solid material suitable for the transferal of an impact from the **ram** to the **elongate object**.
- 91. (New) The **impact driver** as claimed in claim 86, wherein said **chassis** provides **bearings** which locate and support said **ram** for rectilinear movement within said **chassis**.
- 92. (New) The **impact driver** as claimed in claim 91, wherein said **bearings** are located within a **casing** of said **chassis**, said **ram** also at least in part provided and retained by said **bearings** within said **casing** of said **chassis**.
- 93. (New) The **impact driver** as claimed in claim 91, wherein said **stator** of said **linear induction motor** is positioned within the **casing** of said **chassis**.
- 94. (New) The **impact driver** as claimed in claim 86, wherein said **chassis** includes a **casing** defining an elongate chamber within which at least part of said **ram** is able to move in the elongate direction.
- 95. (New) The **impact driver** as claimed in claim 86, wherein the relative position of said **ram** at least when in one position with respect to said **chassis** is able to be sensed by an **electronic sensor**.
- 96. (New) The **impact driver** as claimed in claim 95, wherein said **electronic sensor** is a limit sensor for detecting the reaching of the **ram** to or proximate to its **retracted position**.
- 97. (New) The **impact driver** as claimed in claim 95, wherein said **electronic sensor** is in communication with a controller for controlling of the **linear induction motor**, in order for the **electronic sensor** to actuate the controller to accelerate the said **ram** from the **retracted position** to the **impact position**.
- 98. (New) The **impact driver** as claimed in claim 86, wherein said **stator** is controlled to accelerate the **ram** from the **retracted position** to the **impact position** at a rate different and most usually greater than from the **impact position** to the **retracted position**.
- 99. (New) The **impact driver** as claimed in claim 86, wherein an **anvil assembly** is positioned relative to said **chassis** to hold an **anvil** in alignment to the rectilinear direction of movement of said **ram** to be interposed between the head of said **elongate object** and said **impact head** for the purpose of providing a cushioning to the impact force of said **ram** applied to said **elongate object**.
- 100. (New) The **impact driver** as claimed in claim 99, wherein said **anvil assembly** is in a translatable engagement with said **chassis**.

- 101. (New) The **impact driver** as claimed in claim 99, wherein said **anvil assembly** presents said **anvil** at a location remote from said **chassis**.
- 102. (New) The **impact driver** as claimed in claim 86, wherein said **chassis** is mounted to a **support structure**.
- 103. (New) The **impact driver** as claimed in claim 99, wherein said **chassis** is mounted to a **support structure** and said **anvil assembly** is in a translatable engagement with said **support structure** to permit its movement relative thereto and parallel to the rectilinear direction of movement.
- 104. (New) The **impact driver** as claimed in claim 86, wherein said **support** structure includes a **mounting arrangement** for mounting the **chassis** to a **vehicle**.
- 105. (New) The **impact driver** as claimed in claim 104, wherein said **mounting** arrangement allows said **support structure** to rotate relative to said **vehicle**.
- 106. (New) The **impact driver** as claimed in claim 104, wherein said **mounting** arrangement allows said support structure to translate relative to said vehicle.
- 107. (New) The **impact driver** as claimed in claim 86, wherein said **chassis** is mounted to a **support device** selected from one of a vehicle, a vessel and a derrick.
- 108. (New) The **impact driver** as claimed in claim 107, wherein said **chassis** is connected to the **support device** by an articulated mounting arrangement configured for mounting the **chassis** to the **support device** in an articulated manner.
- 109. (New) The **impact driver** as claimed in claim 86, wherein the **impact driver** is a pile driver.
- 110. (New) The **impact driver** as claimed in claim 86, wherein when said **reaction member** is accelerated to move from said **retracted position** to said **impact position**, the acceleration of the said **ram** is enhanced by the addition of a gravitational force component that increases from zero in the horizontal plane to a maximum additional acceleration of 9.81m/s² in the vertical plane.
- 111. (New) The **impact driver** as claimed in claim 86, wherein said **elongate object** can be extracted from said **body** by nature of the following arrangement:
 - a) said impact position and said retracted position are reversed with respect to said elongate object so that the said ram is accelerated away from said elongate object,
 - b) said ram includes an engagement arrangement for engaging with said elongate object to transmit forces from the linear induction motor to the elongate object, thereby to extract the elongate object; and
 - c) the movement of said ram being controllable though said linear induction motor to reduce said ram's impact on said elongate object to a

lesser extent when said **ram** returns to a more proximate position to said **elongate object** between extraction strokes.